

Material Safety Data Sheet

Material: WACKER SILICON-PASTE P 4

Version: 1.7 (DS) Date of print: 06/02/2006 Date of last alteration: 11/06/2005

1 Product and company identification**1.1 Identification of the substance or preparation:**

Commercial product name: WACKER SILICON-PASTE P 4
 Product group: Silicone Polymer
 Use of substance / preparation: Industrial.
 Auxiliary agent for: elastomer products

1.2 Company/undertaking identification:

Manufacturer/distributor: Wacker Chemie AG
 Frank-Geisler-Platz 4
 81937 München
 Germany

Customer information: Wacker Chemical Corporation
 1161 Sutton Road
 Adrian, Michigan 49221 9397
 USA
 Customer Care Center:
 Tel (517) 264-8248, Fax (517) 264-0760
 Hours of operation:
 Monday - Friday, 9 am to 5 pm (eastern standard time)
 Corporate website: www.wackersilicones.com

Emergency telephons no. (24h): (517) 264-8500
 Transportation emergency:
 (800) 422-9300 (CALMSHC, USA)
 (763) 527-3887 (CHEMTREC, International)
 (619) 596-6556 (CANUTEC, Canada)

This MSDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemie Corporation.

2 Composition/information on ingredients**2.1 Chemical characterization (preparation):****Chemical characteristics**

Polydimethylsiloxane + Filler

2.2 Information on ingredients:

This material does not contain any hazardous substances at or above OSHA and HMDS reportable levels. Due to the physical nature of this material (paste), exposure to dust/particulates is not expected.

Substances listed in the Subsections 'HAPS' and 'Cs' Toxic Proposition of Carcinogens / Reproductive Toxins that are not listed in Section 2 are only present at quantities below 0.1% for California Proposition 65 listed as or below 1% for non-carcinogenic HAPS or they are negligibly found in the product.

3 Hazards identification**3.1 Hazards classification**

HMIS® rating (product as packaged):

Health: 1 Skin: 1 Reactivity: 0 PPE: H

Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Assoc. of the U.S. HMIS codes are based on contact with the product as packaged and any hydrolysis by product as presented.

Canadian HMIS classification: NONE

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3.2 Emergency overview and potential hazards

This material is not hazardous under GHS criteria. This material is not hazardous under WHMIS criteria.

Physical Hazards:

No known physical hazards.

Acute health effects**Route of entry or possible contact:**

eyes, skin, ingestion

Eye contact:

May cause slight eye irritation.

Skin contact:

No acute toxic skin effects are expected.

Inhalation:

No acute toxic respiratory tract effects are expected. Inhalation is not expected due to low vapor pressure or high viscosity.

Ingestion:

Ingestion is not expected in industrial use.

Additional information on acute health effects:

The health hazard evaluation is based on test results and/or known properties of ingredients. Due to the physical nature of this material (paste), exposure to dusts/particulates is not expected.

3.3 Further information:**Chronic health effects:**

No known or expected chronic health effects.

Medical conditions which may be aggravated by exposure:

none known

Target organs affected:

No known internal organ effects.

Signs and Symptoms of Exposure:

Refer to Acute Health Effects, listed above.

Carcinogens/Reproductive toxins:

There are no carcinogenic ingredients present at or over 0.1% (w/w) or 1.0 g water wt. This material does not contain any reproductive toxins at or above GHS or WHMIS reportable levels.

See Section 11 for Toxicological Information, if any.

4 First-aid measures**4.1 General information:**

Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

4.2 After inhalation:

Material cannot be inhaled under normal conditions. No special measures required.

4.3 After contact with the skin:

For skin contact: Wipe off excess material with cloth or paper. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.

4.4 After contact with the eyes:

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

4.5 After swallowing:

After swallowing: No special treatment is required.

5 Fire-fighting measures**5.1 Flammable properties:**

Method

Flash point.....	not applicable
Boiling point / boiling range.....	not applicable
Lower explosion limit (UEL).....	not applicable
Upper explosion limit (UEL).....	not applicable
Ignition temperature.....	> 300 °C (2702 °F)

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- 5.2 Fire and explosion hazards:**
This material does not present any special fire or explosion hazards.
- 5.3 Recommended extinguishing media:**
water spray , dry chemical , alcohol-resistant foam , carbon dioxide , sand .
- 5.4 Unsuitable extinguishing media:**
water jet
- 5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:**
Hazardous decomposition products: carbon dioxide , carbon monoxide , formaldehyde , silicon dioxide , hydrogen chloride and incompletely burnt hydrocarbons .
- 5.6 Fire fighting procedures:**
Fire fighters should wear full protective clothing including a self contained breathing apparatus. Cool endangered containers with water.

6 Accidental release measures

- 6.1 Precautions:**
No special measures required.
WACKER PPE Level: 0
- 6.2 Containment:**
Prevent material from entering sewers or surface waters.
Spills or material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-9002.
- 6.3 Methods for cleaning up:**
Sweep up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clear any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

7 Handling and storage

- 7.1 Handling**
Precautions for safe handling:
No special protective measures required.
Precautions against fire and explosion:
No special precautions against fire and explosion required.
- 7.2 Storage**
Conditions for storage rooms and vessels:
none known
Advice for storage of incompatible materials:
not applicable
Further information for storage:
Keep container tightly closed. Store in a dry and cool place.

8 Exposure controls and personal protection

- 8.1 Engineering controls**
Ventilation:
Use with adequate ventilation.
Local exhaust:
not necessary
- 8.2 Associate substances with specific control parameters such as limit values**
none known
- 8.3 Personal protection equipment (PPE)**
Respiratory protection:
Respiratory protection is not normally required.
Hand protection:
Recommendation: Any long (or gh.) rubber or vinyl gloves.
Eye protection:
Recommendation: Safety glasses with side shields.

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Other protective clothing or equipment:

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

8.4 General hygiene and protection measures:

When handling do not eat, drink, smoke or apply cosmetics. Wash thoroughly after handling.

9 Physical and chemical properties**9.1 Appearance**Physical state / form: paste
Colour: opaque
Odour: odourless**9.2 Safety parameters**

		Method
Melting point / melting range:	not applicable	
Boiling point / boiling range:	not applicable	
Flash point:	not applicable	
Ignition temperature:	> 433 °C (> 792 °F)	
Lower explosion limit (LEL):	not applicable	
Upper explosion limit (UEL):	not applicable	
Vapour pressure:	< 2 hPa at 20 °C (68 °F)	
Density:	approx. 1 g/cm ³ at 20 °C (77 °F)	(11) (1/27)
Water solubility / miscibility:	virtually insoluble	
pH-Value:	not applicable	
Viscosity (dynamic):	not applicable	

9.3 Further information

VOC:	0.0 g/l	(calculated value)
Thermal decomposition:	> 250 °C (> 482 °F)	

10 Stability and reactivity**10.0 General information:**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.1 Conditions to avoid:

none known

10.2 Materials to avoid:

none known

10.3 Hazardous decomposition products:

If stored and handled in accordance with standard industrial practices and local regulations where applicable: none known. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through ox. det. on.

10.4 Further information:

Hazardous polymerization cannot occur.

11 Toxicological information**11.1 General information:**

Toxicological testing has not been conducted with this material.

11.2 Toxicological data:

Experience with use:

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12 Ecological information**12.1 Information on elimination (persistence and degradability)****Biodegradation / further information:**

Biologically not degradable.

Further information:

Insoluble in water. Elimination by adsorption to activated sludge.

12.2 Behaviour in environmental compartments**Mobility**

Insoluble in water. Adsorbed by floating particles. Separation by sedimentation.

Further information:

No adverse effects expected.

12.3 Ecotoxicological effects:

No expected damaging effects to aquatic organisms.

Effects in sewage treatment plants (bacteria toxicity; respiration-/reproduction inhibition):

According to current knowledge adverse effects on water purification plants are not expected.

12.4 Additional information**Other harmful effects**

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General information:

No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

13 Disposal considerations**13.1 Product disposal****Recommendation:**

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.

13.2 Packaging disposal**Recommendation:**

Containers should be completely emptied before recycling as specified in government regulations. Empty containers should be sent to an approved recycling facility.

14 Transport information**14.1 US DOT & CANADA TDG SURFACE**

Valuation.....: Not regulated for transport.

14.2 Transport by sea IMDG-Code

valuation.....: Not regulated for transport.

14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport.

15 Regulatory information**15.1 U.S. Federal regulations****TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain any TSCA 12(b) regulated chemicals.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

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SARA 302 HHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

This product does not present any SARA 311/312 hazards.

SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants):

60-56-1 Methylol

108-88-3 Toluene

15.2 U.S. State regulations**California Proposition 65 Carcinogens:**

This material does not contain any chemicals known to the state of California to cause cancer.

California Proposition 65 Reproductive Toxins:

108-88-3 Toluene

Massachusetts Substance List:

112945-52-5 Silica, amorphous, fumed

New Jersey Right-to-Know Hazardous Substance List:

112945-52-5 Silica, amorphous, fumed

Pennsylvania Right-to-Know Hazardous Substance List:

112945-52-5 Silica, amorphous, fumed

15.3 Canadian regulations

This product has been classified in accordance with the Hazard criteria of the GHS and the MSDS contains all the information required by the GHS.

WHMIS Hazard Classes:

None.

DSL Status:

This material or its components are listed on the Canadian Domestic Substances List.

Non-DSL Chemicals:

This material does not contain any non-DSL chemicals.

Canadian Ingredient Disclosure List:

112945-52-5 Silica, amorphous, fumed

15.4 Other international regulations**EU Risk Phrases:**

R-Phrase	Description
R	

EU Safety Phrases:

S-Phrase	Description
S-	

Details of international registration status

Listed on the following inventories:

IECS - China
 EINECS - Europe
 PICCS - Philippines
 FICS - Japan
 AICS - Australia
 ECL - Korea
 NZSO - New Zealand

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16 Other information**16.1 Additional information:**

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for use which infringe valid patents or as extending a license under valid patents. This MSDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

16.2 Glossary of Terms:

ACGIH - American Conference of Governmental

Industrial Hygienists

DOT - Department of Transportation

EPA - Environmental

EPA's - Milli Pascal-Seconds

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

Flash point determination methods

ASTM D56

ASTM D92, TM 1176, TM 2402

ASTM D91, DIN 51758, ISO 2719

ASTM D3278, DIN 51620, ISO 3579

DIN 51755

ppm - Parts per Million

SARA - Superfund Amendments and Reauthorization Act

STEL - Short Term Exposure Limit

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

WHMIS - Canadian Workplace Hazardous Materials

Identification System

Cupping tests

Inglisbee (Tag) closed cup

Cleveland open cup

Fancy-Tappers closed cup

Setalack or Rapid closed cup

Abel-Tappers closed cup

16.3 Conversion table:

Pressure: 1 MPa = 0.75 = 1 mm Hg = 1 Torr, 1 bar = 1000 hPa

Viscosity: 1 mPa*s = 1 Centipoise (Cp)